

وصف المقرر الدراسي

Course Name: Practical building materials

Course code: ENG016

Semester1/Year: 2025

Date this description was prepared: 2025-10-1

Available attendance formats: Bologna Process

Total credit hours/unit credits: 175

Course coordinator: M.M. Yasser Neama Kazem

Email/ yasir.al@uowa.edu.iq

1. Course objectives

This course aims to introduce students to the fundamental concepts of various building materials

Raw materials and manufacturing methods for building materials; Engineering properties of building materials; Standard specifications for building materials; Various applications of building materials in the construction industry; and ..Laboratory tests performed on building materials for quality control purposes

Objectives

2. Teaching and learning strategy

The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.	strategy
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3. بنية المقرر

Assessment Method	Teaching Method	Topic	Learning Outcomes	Hours, Required	Week
Inside the laboratory	presence	Introduction to The Construction Materials Lab, Student Responsibilities, How ...to write report			2-1
Inside the laboratory	presence	Tests of Clay Bricks : Dimensions Test and Water Absorption Test on Bricks			3-4

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Inside the laboratory	presence	Tests of Clay Bricks: Determination of Efflorescence of bricks and Compressive Strength of Bricks			6-5
Inside the laboratory	presence	Tests of Tiles : Dimension and Shape Test and Modulus of rupture test of tile			8-7
Inside the laboratory	presence	Tests of Tiles: Water Absorption Test of Tiles (Total absorption Test and			10-9

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		Face absorption of tiles)			
		Gypsum test: Gypsum fineness and Standard Consistency of Gypsum			12-11
	presence	Gypsum test: Setting time of gypsum and Compressive strength of gypsum			14-13
		Week 15 Lab exam			15

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4. Course Evaluation (Assessment)

%10 = Reports

5. Learning and Teaching Resources

.Building Materials,S. K. Duggal 3rd ed., 2008 ,New Delhi.1 Civil Engineering Materials, N. Jackson and V. K. Dhir , 5th.2 .ed. 1996	Required Texts
. 1.Materials for civil and construction engineers, M. S Mamlouk, and J. P.Zaniewski, 3rd ed.2011, Pearson..	Recommended Texts
	Websites

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رئيس قسم الهندسة المدنية

باسم نعمة السعيد
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